#### **KONK NATURAL AEROSOL**

#### **Damar Industries Limited**

Version No: 1.2 Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 4

Issue Date: 06/10/2016 Print Date: 16/02/2018 S.GHS.NZL.EN

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	KONK NATURAL AEROSOL
Synonyms	CPA0551
Proper shipping name	AEROSOLS
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Insecticide

#### Details of the supplier of the safety data sheet

Registered company name	Damar Industries Limited	Formula Marketing Limited		
Address	800 Te Ngae Road BOP New Zealand	23 Ross Reid place, East Tamaki Auckland 2013, New Zealand		
Telephone	+64 7 345 6007	09 273 3600		
Fax	+64 7 345 6019	09 271 2304		
Website	Website www.damarindustries.co.nz www.formula.co.nz			
Email info@damarindustries.co.nz sales@formula.co.nz		sales@formula.co.nz		

#### **Emergency telephone number**

Association / Organisation	CHEMCALL (0800 CHEMCALL)	09 274 6693	
Emergency telephone numbers	0800 243 622	0800 436 768	
Other emergency telephone numbers	1800 243 622 (outside New Zealand)	Not Available	

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

#### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	4		
Toxicity	1		0 = Minimum
Body Contact	1		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	2		4 = Extreme

Classification [1]

Aerosols Category 1, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1, Acute Invertebrate Hazard Category 2

Legend:

1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

**Determined by Chemwatch** using GHS/HSNO criteria

9.1A, 6.5B (contact), 9.4B, 2.1.2A, 6.5A (respiratory)

#### Label elements

Hazard pictogram(s)







SIGNAL WORD

DANGER

#### Hazard statement(s)

H222	Extremely flammable aerosol.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

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H410	Very toxic to aquatic life with long lasting effects.			
H442	H442 Toxic to terrestrial invertebrates			
Precautionary statement(s) Prevention				
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.			
P211	P211 Do not spray on an open flame or other ignition source.			
P251	Pressurized container: Do not pierce or burn, even after use.			

#### Precautionary statement(s) Response

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P342+P311	ff experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.		
P363	Wash contaminated clothing before reuse.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		

#### Precautionary statement(s) Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Avoid breathing dust/fumes.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name		
64742-48-9.	1-10	naphtha petroleum, isoparaffin, hydrotreated		
8003-34-7	<1	pyrethrum		
51-03-6	1-5	piperonyl butoxide		
113-48-4	1-5	2-ethylhexyl bicycloheptene dicarboximide		
106-97-8.	60-90	<u>butane</u>		
74-98-6	10-30	propane		

#### **SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

#### Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.  Generally not applicable.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	If aerosols, fumes or combustion products are inhaled:  ► Remove to fresh air.  ► Lay patient down. Keep warm and rested.  ► Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.  ► If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.  ► Transport to hospital, or doctor.
Ingestion	Not considered a normal route of entry.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

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Water spray or fog.

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#### Special hazards arising from the substrate or mixture

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Advice for firefighters ▶ Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Fire Fighting Wear breathing apparatus plus protective gloves. ▶ Prevent, by any means available, spillage from entering drains or water course. Slight hazard when exposed to heat, flame and oxidisers. ▶ Liquid and vapour are highly flammable. ▶ Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Combustion products include: Fire/Explosion Hazard carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material

▶ Vented gas is more dense than air and may collect in pits, basements.

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	Environmental hazard - contain spillage.  ► Clean up all spills immediately.  ► Avoid breathing vapours and contact with skin and eyes.  ► Wear protective clothing, impervious gloves and safety glasses.  ► Shut off all possible sources of ignition and increase ventilation.
Major Spills	Environmental hazard - contain spillage.  Clear area of all unprotected personnel and move upwind.  Alert Emergency Authority and advise them of the location and nature of hazard.  May be violently or explosively reactive.  Wear full body clothing with breathing apparatus.  Remove leaking cylinders to a safe place.  Fit vent pipes. Release pressure under safe, controlled conditions.  Burn issuing gas at vent pipes.  DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  May be violently or explosively reactive.  Wear breathing apparatus plus protective gloves.  Clean up all spills immediately.  Wear protective clothing, safety glasses, dust mask, gloves.  Secure load if safe to do so. Bundle/collect recoverable product.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. Safe handling Use in a well-ventilated area. Prevent concentration in hollows and sumps. ▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can ► Store in original containers in approved flammable liquid storage area. **DO NOT** store in pits, depressions, basements or areas where vapours may be trapped. ▶ No smoking, naked lights, heat or ignition sources. Other information Keep containers securely sealed. Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities		
Suitable container	<ul> <li>▶ Aerosol dispenser.</li> <li>▶ Check that containers are clearly labelled.</li> </ul>	
Storage incompatibility	Butane/ isobutane  ► reacts violently with strong oxidisers  ► reacts with acetylene, halogens and nitrous oxides	

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- is incompatible with chlorine dioxide, conc. nitric acid and some plastics.
- ▶ may generate electrostatic charges, due to low conductivity, in flow or when agitated these may ignite the vapour.

Segregate from nickel carbonyl in the presence of oxygen, heat (20-40 C)

#### Propane:

- Freacts violently with strong oxidisers, barium peroxide, chlorine dioxide, dichlorine oxide, fluorine etc.
- liquid attacks some plastics, rubber and coatings
- ▶ may accumulate static charges which may ignite its vapours
- Avoid reaction with oxidising agents
- Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	naphtha petroleum, isoparaffin, hydrotreated	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour.
New Zealand Workplace Exposure Standards (WES)	pyrethrum	Pyrethrum	5 mg/m3	Not Available	Not Available	(sen) - Sensitiser
New Zealand Workplace Exposure Standards (WES)	butane	Butane	1,900 mg/m3 / 800 ppm	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	propane	Propane	Not Available	Not Available	Not Available	Simple asphyxiant - may present an explosion hazard

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
naphtha petroleum, isoparaffin, hydrotreated	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	350 mg/m3	1,800 mg/m3	40,000 mg/m3
piperonyl butoxide	Piperonyl butoxide	6.5 mg/m3	72 mg/m3	1,200 mg/m3
butane	Butane	Not Available	Not Available	Not Available
propane	Propane	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
naphtha petroleum, isoparaffin, hydrotreated	2500 mg/m3	Not Available
pyrethrum	5000 mg/m3	Not Available
piperonyl butoxide	Not Available	Not Available
2-ethylhexyl bicycloheptene dicarboximide	Not Available	Not Available
butane	Not Available	1,600 (>10% LEL) ppm
propane	2,100 [LEL] ppm	Not Available

#### **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment









#### Personal protection

- Safety glasses with side shields.
- Chemical goggles.
- ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
- ► Close fitting gas tight goggles

#### DO NOT wear contact lense

#### Eye and face protection

► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.

No special equipment for minor exposure i.e. when handling small quantities.

OTHERWISE: For potentially moderate or heavy exposures:

- Safety glasses with side shields.
- NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them. No special equipment required due to the physical form of the product.

# Skin protection

See Hand protection below

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NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. ▶ No special equipment needed when handling small quantities. OTHERWISE: Hands/feet protection ► For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. ► For potentially heavy exposures: ▶ Wear chemical protective gloves, eg. PVC. and safety footwear. No special equipment required due to the physical form of the product. **Body protection** ► The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. ▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards. No special equipment needed when handling small quantities. Other protection OTHERWISE: Overalls. ► Skin cleansing cream. Eyewash unit. No special equipment required due to the physical form of the product. Thermal hazards Not Available

#### Respiratory protection

Type AG Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AG-AUS	-	AG-PAPR-AUS / Class 1
up to 50 x ES	-	AG-AUS / Class 1	-
up to 100 x ES	-	AG-2	AG-PAPR-2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- ▶ Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.
- ► Generally not applicable.

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	Packed as liquid under pressure and remains liquid only under pressure. Sudden release of pressure or leakage may result in rapid vapourisation with generation of a large volume of highly flammable / explosive gas.   Aerosol				
Physical state	article	Relative density (Water = 1)	0.581		
Odour	Slight	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	431		
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	-81	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available		
Upper Explosive Limit (%)	10	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	1.5	Volatile Component (%vol)	Not Available		

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Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	1.8	VOC g/L	Not Available

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Elevated temperatures.     Presence of open flame.     Product is considered stable.     Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

Information	٥n	toxicolor	ıical	effects
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Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.

# Symptoms of asphyxia (suffocation) may include headache, dizziness, shortness of breath, muscular weakness, drowsiness and ringing in the ears. If the asphyxia is allowed to progress, there may be nausea and vomiting, further physical weakness and unconsciousness and, finally, convulsions, coma and death.

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

#### WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

The paraffin gases are practically not harmful at low doses. Higher doses may produce reversible brain and nerve depression and irritation.

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Spray mist may produce discomfort

Accidental ingestion of the material may be damaging to the health of the individual Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

# The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

Skin Contact Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

There is some evidence to suggest that this material can cause eye irritation and damage in some persons. Not considered to be a risk because of the extreme volatility of the gas.

Not considered to be a risk because of the extreme volatility of the gas.

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

Chronic Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Main route of exposure to the gas in the workplace is by inhalation.

There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

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KONK NATURAL AEROSOL	TOXICITY  Not Available	IRRITATION  Not Available
naphtha petroleum, isoparaffin, hydrotreated	TOXICITY  Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup> Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	IRRITATION  Not Available
pyrethrum	TOXICITY  dermal (rat) LD50: 1350 mg/kg <sup>[2]</sup> Oral (rat) LD50: 200 mg/kg <sup>[2]</sup>	IRRITATION  Not Available
piperonyl butoxide	TOXICITY  dermal (rat) LD50: >7950 mg/kg <sup>[2]</sup> Inhalation (rat) LC50: >5.9 mg/l4 h <sup>[1]</sup> Oral (rat) LD50: 5630 mg/kg <sup>[1]</sup>	IRRITATION  Not Available

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	TOXICITY	IRRITATION			
2-ethylhexyl bicycloheptene	dermal (rat) LD50: 470 mg/kg <sup>[2]</sup>	Not Available			
dicarboximide	Oral (rat) LD50: 2800 mg/kg <sup>[2]</sup>	, in the second			
butane	TOXICITY	IRRITATION			
butane	Inhalation (rat) LC50: 658 mg/l/4H <sup>[2]</sup>	Not Available			
propane	TOXICITY	IRRITATION			
P P	Inhalation (rat) LC50: 84.684 mg/l15 min <sup>[1]</sup>	Not Available			
Legend:	Value obtained from Europe ECHA Registered Substar data extracted from RTECS - Register of Toxic Effect of cl		from manufacturer's SDS. Unless otherwise specified		
KONK NATURAL AEROSOL	the allergen and period of exposure often determine the set other irritants may aggravate symptoms. Allergy causing a Attention should be paid to atopic diathesis, characterised Exogenous allergic alveolitis is induced essentially by aller be involved. Such allergy is of the delayed type with onset to The following information refers to contact allergens as a contact allergies quickly manifest themselves as contact allergies quickly manifest themselves.	n occur after exposure to high levels of a non-atopic individual, with sudden on eria for diagnosis of RADS include a rev- e testing, and the lack of minimal lymph y due to interactions between IgE antib- verity of symptoms. Some people may be activity is due to interactions with protein by increased susceptibility to nasal infla- rgen specific immune-complexes of the up to four hours following exposure. group and may not be specific to this pre- group and may not be specific to this pre-	highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to versible airflow pattern on lung function tests, moderate to ocytic inflammation, without eosinophilia. odies and allergens and occur rapidly. Allergic potential of the genetically more prone than others, and exposure to the instantian and eczema. In the log type; cell-mediated reactions (T lymphocytes) may product.		
NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.  The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet.  For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains toluene, and animal studies suggest high concentrations of toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from which animal testing shows evidence of tumour formation.  Cancer-causing potential: Animal testing shows inhaling petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans.				
PYRETHRUM	Pyrethrins have low to moderate acute toxicity when swallowed, inhaled and on skin contact.  They have a moderate irritant effect on the eye and skin (but do not sensitise the skin).  The toxic effects of pyrethrin include tremors, laboured breathing, hyperactivity, thyroid disturbances, and liver effects. Animal testing has found that pyrethrins can cause tremors and convulsions before death and that pyrethrins are toxic to the axon.				
	pyrethrins can cause tremors and convulsions before death ADI: 0.04 mg/kg/day				
PIPERONYL BUTOXIDE	**	n and that pyrethrins are toxic to the axo	n.		
PIPERONYL BUTOXIDE  2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited it.	in animal testing.  pgy] *Published value - probably not per peated exposure and may produce on  (MGK-264): The dermal absorption fa is not toxic to the immune system or ner	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing rvous system. MGK-264 affects the liver cells and causes		
2-ETHYLHEXYL BICYCLOHEPTENE	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in Dermal (rabbit) LD50: >1880 mg/kg [Handbook of Toxicolot The material may cause skin irritation after prolonged or rescaling and thickening of the skin.  For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximides showed that it can cause changes to cells of the airway. It is	in animal testing.  by Published value - probably not per  pepeated exposure and may produce on  c (MGK-264): The dermal absorption far  is not toxic to the immune system or ner  diffied as possibly causing cancer in hun	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing rvous system. MGK-264 affects the liver cells and causes		
2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED &	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in Dermal (rabbit) LD50: >1880 mg/kg [Handbook of Toxicok of The material may cause skin irritation after prolonged or rescaling and thickening of the skin.  For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximides showed that it can cause changes to cells of the airway. It is benign tumours of the liver and thyroid, and has been iden	in animal testing.  by Published value - probably not per  pepeated exposure and may produce on  c (MGK-264): The dermal absorption far  is not toxic to the immune system or ner  diffied as possibly causing cancer in hun	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing rvous system. MGK-264 affects the liver cells and causes		
2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED & PYRETHRUM	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in Dermal (rabbit) LD50: >1880 mg/kg [Handbook of Toxicolot The material may cause skin irritation after prolonged or rescaling and thickening of the skin.  For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximide showed that it can cause changes to cells of the airway. It is benign tumours of the liver and thyroid, and has been iden.  No significant acute toxicological data identified in literature.	in animal testing.  pgy] *Published value - probably not per epeated exposure and may produce on  e (MGK-264): The dermal absorption fa is not toxic to the immune system or ner tiffied as possibly causing cancer in hun  re search.	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing rvous system. MGK-264 affects the liver cells and causes nans.		
2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE  NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED & PYRETHRUM  Acute Toxicity	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in Dermal (rabbit) LD50: >1880 mg/kg [Handbook of Toxicok of The material may cause skin irritation after prolonged or rescaling and thickening of the skin.  For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximide showed that it can cause changes to cells of the airway. It is benign tumours of the liver and thyroid, and has been iden  No significant acute toxicological data identified in literature.	in animal testing.  by any and that pyrethrins are toxic to the axout in animal testing.  by any and the probably not perspected exposure and may produce on the (MGK-264): The dermal absorption farms not toxic to the immune system or nertified as possibly causing cancer in hunder search.  Carcinogenicity	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing vous system. MGK-264 affects the liver cells and causes nans.		
2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE  NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED & PYRETHRUM  Acute Toxicity Skin Irritation/Corrosion	ADI: 0.04 mg/kg/day  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in Dermal (rabbit) LD50: >1880 mg/kg [Handbook of Toxicok]  The material may cause skin irritation after prolonged or rescaling and thickening of the skin.  For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximide showed that it can cause changes to cells of the airway. It is benign turnours of the liver and thyroid, and has been iden.  No significant acute toxicological data identified in literature.	in animal testing.  pgy] *Published value - probably not per peated exposure and may produce on  (MGK-264): The dermal absorption fa is not toxic to the immune system or ner tiffied as possibly causing cancer in hun  are search.  Carcinogenicity  Reproductivity	er-reviewed ADI: 0.03 mg/kg contact skin redness, swelling, the production of vesicles, ctor of MGK-264 is approximately 10%. Animal testing vous system. MGK-264 affects the liver cells and causes nans.		

X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

O - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
KONK NATURAL AEROSOL	Not Available	Not Available	Not Available	Not Available	Not Available

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naphtha petroleum,	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
isoparaffin, hydrotreated	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
pyrethrum	LC50	96	Fish	0.0032mg/L	4
	EC50	48	Crustacea	0.0067mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
ninerenul butevide	LC50	96	Fish	0.0024mg/L	4
_	EC50	48	Crustacea	0.1mg/L	4
	NOEC	48	Crustacea	0.01mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
2-ethylhexyl bicycloheptene dicarboximide	LC50	96	Fish	1.4mg/L	4
	EC50	48	Crustacea	2.3mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
butane	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
propane	Not Available	Not Available	Not Available	Not Available	Not Available

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Toxic to bees.

For Butane (Synonym: n-Butane): Log Kow: 2.89; Koc: 450-900; Henry ♦ s Law Constant: 0.95 atm-cu m/mole, Vapor Pressure: 1820 mm Hg; BCF: 1.9.

Atmospheric Fate: Butane is expected to exist only as a gas in the ambient atmosphere. Gas-phase n-butane is degraded in the atmosphere by reaction with hydroxyl radicals; the half-life for this reaction in air is estimated to be 6.3 days, (@ 25 C). Butane is not expected to absorb UV light and probably will probably not be broken down directly by sunlight in the atmosphere. For Propane: Koc 460. log

Kow 2.36.

Henry's Law constant of 7.07x10-1 atm-cu m/mole, derived from its vapour pressure, 7150 mm Hg, and water solubility, 62.4 mg/L. Estimated BCF: 13.1.

DO NOT discharge into sewer or waterways

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
piperonyl butoxide	HIGH	HIGH
2-ethylhexyl bicycloheptene dicarboximide	нен	HIGH
butane	LOW	LOW
propane	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
piperonyl butoxide	HIGH (LogKOW = 4.75)
2-ethylhexyl bicycloheptene dicarboximide	LOW (LogKOW = 3.7)
butane	LOW (LogKOW = 2.89)
propane	LOW (LogKOW = 2.36)

#### Mobility in soil

Ingredient	Mobility
piperonyl butoxide	LOW (KOC = 69.74)
2-ethylhexyl bicycloheptene dicarboximide	LOW (KOC = 10410)
butane	LOW (KOC = 43.79)
propane	LOW (KOC = 23.74)

#### KONK NATURAL AEROSOL

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#### Waste treatment methods

Product / Packaging disposal

- ► Consult State Land Waste Management Authority for disposal.
- ► Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ► DO NOT incinerate or puncture aerosol cans.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**



#### **Marine Pollutant**



HAZCHEM

Not Applicable

#### Land transport (UN)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions   63; 190; 277; 327; 344; 381   Limited quantity   1000ml		

### Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable; Aerosols, flammable (engine starting fluid)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1  Not Applicable  10L		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
	Special provisions  Cargo Only Packing In  Cargo Only Maximum		A145 A167 A802; A1 A145 A167 A802 203 150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203; Forbidden	
	Passenger and Cargo Maximum Qty / Pack		75 kg; Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions		Y203; Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G; Forbidden	

### Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class 2.1  IMDG Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number F-D, S-U Special provisions 63 190 277 327 344 381 959 Limited Quantities 1000ml		

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#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR000351	Flammable aerosol containing 2.3 - 5.7 g/litre pyrethrins and 11.4 g/litre - 16.1 g/kg piperonyl butoxide

#### NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED(64742-48-9.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

New Zealand Workplace Exposure Standards (WES)

Monographs

New Zealand Inventory of Chemicals (NZIoC)

#### PYRETHRUM(8003-34-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### PIPERONYL BUTOXIDE(51-03-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of

Chemicals

#### 2-ETHYLHEXYL BICYCLOHEPTENE DICARBOXIMIDE(113-48-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of

New Zealand Inventory of Chemicals (NZIoC)

#### BUTANE(106-97-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

#### PROPANE(74-98-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of

New Zealand Workplace Exposure Standards (WES)

Chemicals New Zealand Inventory of Chemicals (NZIoC)

#### **Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)

#### **Approved Handler**

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below

Class of substance	Quantities
9.1A, 9.2A, 9.3A, and 9.4A	Any quantity
2.1.2A	3 000 L aggregate water capacity

Refer Group Standards for further information

#### **Tracking Requirements**

Subject to Hazardous Substances (Tracking) Regulation 2001

- Refer to the regulation for more information

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (pyrethrum; 2-ethylhexyl bicycloheptene dicarboximide; piperonyl butoxide; butane; naphtha petroleum, isoparaffin, hydrotreated; propane)
China - IECSC	N (piperonyl butoxide)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (pyrethrum; butane; naphtha petroleum, isoparaffin, hydrotreated)
Korea - KECI	N (2-ethylhexyl bicycloheptene dicarboximide)
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	N (pyrethrum; 2-ethylhexyl bicycloheptene dicarboximide)

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#### KONK NATURAL AEROSOL

Y = All ingredients are on the inventory Legend: N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

#### Other information

#### Ingredients with multiple cas numbers

•		
Name	CAS No	
naphtha petroleum, isoparaffin, hydrotreated	64742-48-9., 101795-02-2., 64771-72-8.	
2-ethylhexyl bicycloheptene dicarboximide	113-48-4, 7786-80-3	

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible Concentration-Short Term Exposure Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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